

What is claimed is:

1 1. A base for transforming an inductor, consisting of a core and  
2 a coil having two terminals, into a surface mounted device,  
3 comprising:

4 an insulating element;

5 a first conductive element, substantially Z-shaped, said  
6 first conductive element including a strip of first stem, said  
7 insulating element partially exposing a lower surface of said  
8 first conductive element and said first stem, a remaining  
9 portion of said first conductive element embedded in said  
10 insulating element; and

11 a second conductive element, substantially Z-shaped, said  
12 second conductive element including a strip of second stem,  
13 said insulating element partially exposing a lower surface  
14 of said second conductive element and said second stem, a  
15 remaining portion of said second conductive element embedded  
16 in said insulating element, a terminal of said first  
17 conductive element extending toward said second stem.

18 2. The base according to claim 1, wherein said insulating element  
19 further comprises an upper surface having a cavity formed  
20 thereon for accommodating said inductor.

21 3. The base according to claim 1, wherein said insulating element  
22 further comprises a flat bottom surface.

23 4. The base according to claim 1, wherein said exposed lower  
24 surface of said first conductive element and said exposed  
25 lower surface of said second conductive element are arranged  
26 on the same level.

27 5. The base according to claim 1, wherein said first and second  
28 stems further comprise at least one recessed edge,

3 respectively.

1 6.The base according to claim 1, wherein said coil has two  
2 terminals wound around said respective recessed edges.

1 7.The base according to claim 1, wherein said first conductive  
2 element and said second conductive element are made of metal.

1 8.The base according to claim 1, wherein said insulating element  
2 is made of plastic.

1 9.A base for transforming an inductor, consisting of a core and  
2 a coil having two terminals, into a surface mounted device,  
3 comprising:

4 an insulating element, including an upper surface having a  
5 first cavity formed thereon for accommodating said inductor;  
6 a first conductive element, substantially Z-shaped, said  
7 first conductive element further comprising:

8 a first section, embedded in said insulating element;

9 a second section, partially embedded in said insulating  
10 element, said second section including a strip of first stem,  
11 said insulating element exposing said first stem and a lower  
12 surface of said second section, said first stem including  
13 at least one recessed edge;

14 a first bend section, embedded in said insulating element,  
15 said first section connecting with said second section by  
16 means of said first bend section, a drop formed between said  
17 first bend section and said second section; and

18 a second conductive element, substantially Z-shaped, said  
19 second conductive element further comprising:

20 a third section, embedded in said insulating element;

21 a fourth section, partially embedded in said insulating  
22 element, said fourth section including a strip of second

23 stem, said insulating element exposing said second stem and  
24 a lower surface of said fourth section, said second stem  
25 including at least one recessed edge; and  
26 a second bend section, embedded in said insulating element,  
27 said third section connecting with said fourth section by  
28 means of said second bend section, a drop formed between  
29 said second bend section and said fourth section; and  
30 wherein said first section extending toward said fourth  
31 section, said third section extending toward said first stem.

1 10. The base according to claim 9, wherein said core is partially  
2 embedded in said first cavity.

1 11. The base according to claim 9, wherein said first section  
2 extends toward said fourth section and crosses a virtual  
3 cross-sectional line extending from said first section to  
4 said third section.

1 12. The base according to claim 9, wherein said third section  
2 extends toward said first stem and crosses a virtual  
3 cross-sectional line extending from said first section to  
4 said third section.

1 13. The base according to claim 9, wherein said insulating  
2 element further comprises a flat bottom surface.

1 14. The base according to claim 13, wherein said lower surface  
2 of said second section and said lower surface of said fourth  
3 section are arranged on the same level.

1 15. The base according to claim 9, wherein said coil has two  
2 terminals wound around said respective recessed edges.

1 16. The base according to claim 9, wherein said first conductive

2 element and said second conductive element are made of metal.

1 17. The base according to claim 9, wherein said first conductive  
2 element and said second conductive element further comprises  
3 an upper surface having at least one second cavity and a lower  
4 surface having at least one second cavity, respectively.

1 18. The base according to claim 9, wherein said insulating  
2 element is made of plastic.

1 19. A base for transforming an inductor consisting of a core and  
2 a coil having two terminals into a surface mounted device,  
3 comprising:

4 an insulating element accommodating said inductor;

5 a first conductive element substantially Z-shaped; and

6 a second conductive element substantially Z-shaped;

7 wherein said two terminals wound around said first conductive  
8 element and said second conductive element.